

Although no loss of human life or of livestock was reported, the damage in destruction of growing crops was extremely heavy being heightened by the fact that the region affected suffered overflow the previous year (1927), and this crop had been put in and brought to the cultivation stage by the extensive employment of credit and charity agencies; also, the subsidence of the flood mostly came too late in the season for emergency or substitute crops to be successfully grown during the present year.

Figures obtained from the Mississippi River Commission indicate that 387,712 acres, practically all in the lower Yazoo-Mississippi Delta, was flooded this summer, of which area about 94,400 acres was in growing crops at the time of submergence.

Damage to highways and bridges, while not extensive, also occurred, with various expenditures and damages, such as private and municipal levees and bulwarks, incident to flood protection, the exact amount of which can not be ascertained, much of it being intangible, as the moving away of plantation employees, owing to lack of work.

Considering all losses due to the flood in this vicinity in 1928, it is believed that a total of \$1,750,000 would be a conservative estimate thereof.

Full data on the extent of overflow and the damage done in the reach of the Mississippi within the New Orleans district had not been assembled in time for inclusion in this report. A preliminary statement from New Orleans notes, however, the important similarity of the effect of the flood upon crops in that district to that in other districts to the north. A portion of this statement follows:

The time of occurrence of the rise was unfortunate for crops planted in backwater areas above the mouth of the Red River and in smaller areas, where the bluffs between Vicksburg and Baton Rouge are interrupted by more open areas around the mouths of small eastern tributaries of the Mississippi.

Further overflow from the open crevasse in the lower western levee, or Port Barre South Levee, of the Atchafalaya River, occurred in the neighborhood of Henderson and Breaux Bridge, St. Martin Parish. Special forecasts regarding the amount of rise, time of culmination, and subsequent recession of the overflow were supplied to the relief agencies.

Floods in Kansas.—On the Smoky Hill and Solomon Rivers of Kansas damaging overflows occurred between the 11th and 15th in the vicinity of Beloit, Niles, and Ogden, and again, following the rains of the 18th, in the vicinity of Minneapolis, Kans. The damage, principally to matured crops, was estimated at \$141,600 for the first rise and at \$278,000 for the second.

Miscellaneous.—In interior Ohio and Indiana considerable damage to farms resulted from heavy local rains and overflows from small creeks, and in the Weegee Valley of Ohio, where Weegee Creek was in flood on the 12th, two mines were flooded, with resultant temporary suspension of operations, several bridges were washed out, and other damage was done to an extent roughly estimated at \$500,000.

The floods in the Atlantic, East Gulf, West Gulf, and Pacific drainages were in general of no consequence.

[All dates in July except as otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC DRAINAGE					
Susquehanna: Oneonta, N. Y.....	Feet 12			Feet 12.5	23.
Santee:					
Rimini, S. C.....	12	2	14	13.5	5.
		16	20	13.5	18-19.
		28	(?)	13.8	31.
Ferguson, S. C.....	12	4	8	12.5	6.
		14	22	13.0	17.
		31	(?)		
Broad: Blairs, S. C.....	15	(1)	1	15.8	June 30.
Saluda: Pelzer, S. C.....	7	13	13	7.4	13.
Altamaha: Everett City, Ga.....	10	20	25	10.3	22-23.
EAST GULF DRAINAGE					
Tombigbee: Lock No. 4, Demopolis, Ala....	39	(1)	2	42.3	June 30.
Etowah: Canton, Ga.....	11	14	14	13.1	14.

¹ Continued from last month.

² Continued at end of month.

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
MISSISSIPPI DRAINAGE					
Ohio: Evansville, Ind.	Feet 35	1	8	Feet 38.4	5.
Dam No. 48, Cypress, Ind.	35	3	8	36.9	6.
Shawneetown, Ill.	35	3	10	37.0	7.
Cairo, Ill.	45	1	9	45.6	5-7.
Tuscarawas: Gnadenhutten, Ohio.	9	22	22	9.7	22.
Green:					
Lock No. 6, Brownsville, Ky.	30	1	2	30.6	1.
Lock No. 4, Woodbury, Ky.	33	June 30	4	39.0	2.
Lock No. 2, Rumsey, Ky.	34	June 30	10	38.3	6.
Barren: Bowling Green, Ky.	20	1	2	22.4	2.
Tippacanoe: Norway, Ind.	6	2	2	6.1	2.
White, West Fork: Edwardsport, Ind.	15	9	9	15.6	9.
Cumberland:					
Carthage, Tenn.	40	1	4	45.2	2.
Nashville, Tenn.	40	(¹)	7	42.9	5.
Clarksville, Tenn.	46	(¹)	8	48.0	2.
Tennessee:					
Rockwood, Tenn.	20	1	2	23.4	1.
Clinch: Clinton, Tenn.	25	(¹)	1	28.6	June 30.
Mississippi:					
New Madrid, Mo.	34	(¹)	12	36.0	6-7.
Memphis, Tenn.	35	3	14	35.9	10.
Holena, Ark.	44	(¹)	17	45.7	12-13.
Arkansas City, Ark.	48	(¹)	22	52.6	6-8.
Greenville, Miss.	42	(¹)	21	45.5	6-11.
Vicksburg, Miss.	45	(¹)	28	49.3	11-14.
Natchez, Miss.	46	5	28	48.5	18-19.
Angola, La.	45	11	27	46.0	18-21.
Baton Rouge, La.	35	10	29	36.4	19-21, 23.
Donaldsonville, La.	28	17	25	28.2	21-23.
Illinois:					
Morris, Ill.	13	5	8	14.7	6.
Peru, Ill.	14	{ 4	17	17.3	7-8.
Henry, Ill.	10	8	15	10.8	23.
Havana, Ill.	14	8	18	14.4	10-11.
Beardstown, Ill.	14	12	17	14.1	12-14.
Meramec:					13-16.
Pacific, Mo.	11	(¹)	1	14.5	June 30.
Valley Park, Mo.	14	(¹)	1	18.2	June 30.
St. Francis:					
St. Francis, Ark.	17	(¹)	11	26.7	June 26.
Marked Tree, Ark.	17	(¹)	20	18.3	5-10.
Smoky Hill: Solomon, Kans.	24	11	12	24.2	1.
Solomon: Beloit, Kans.	18	10	10	20.2	10.
		13	15	24.2	14.
		20	22	24.2	21.
		31	(¹)		
Grand, West Fork: Gallatin, Mo.	20	22	25	32.7	24.
Grand: Chillicothe, Mo.	18	22	26	27.4	25.
Grand, Thompsons Fork: Trenton, Mo.	20	22	23	22.5	23.
Arkansas: Yancopin, Ark.	29	(¹)	27	39.1	1-5.
White:					
Newport, Ark.	26	(¹)	4	32.6	June 25.
Georgetown, Ark.	22	(¹)	12	29.9	June 27.
De Valls Bluff, Ark.	24	(¹)	9	28.5	June 28-29.
Clarendon, Ark.	30	(¹)	11	34.9	1.
Black:					
Corning, Ark.	11	(¹)	13	15.0	June 19.
Black Rock, Ark.	14	(¹)	15	26.6	June 22.
Cache: Patterson, Ark.	9	(¹)	9	11.8	June 27-28.
Sulphur: Finley, Tex.	24	(¹)	3	28.6	June 29.
Cypress: Jefferson, Tex.	18	(¹)	2	19.3	1.
Atchafalaya: Melville, La.	37	12	29	37.6	23.
WEST GULF DRAINAGE					
Trinity:					
Dallas, Tex.	25	29	29	25.1	29.
Trinidad, Tex.	28	2	3	28.4	3.
PACIFIC DRAINAGE					
Colorado: Parker, Ariz.	7	(¹)	20	11.9	June 8.
		26	27	7.0	26-27.
Columbia: Marcus, Wash.	24	(¹)	19	34.2	May 30-31.

¹ Continued from last month.

² Continued at end of month.

MEAN LAKE LEVELS DURING JULY, 1928

By UNITED STATES LAKE SURVEY

[Detroit, Mich., August 4, 1928]

The following data are reported in the Notice to Mariners of the above date:

Data	Lakes ¹			
	Superior	Michigan and Huron	Erie	Ontario
Mean level during July, 1928:	Feet 602.87	Feet 580.41	Feet 572.71	Feet 246.73
Above mean sea level at New York				
Above or below				
Mean stage of June, 1928	+0.40	+0.29	+0.32	+0.14
Mean stage of July, 1927	+0.23	+0.83	+0.54	+0.72
Average stage for July, last 10 years	+0.80	+0.25	+0.39	+0.53
Highest recorded July stage	-0.95	-3.17	-1.70	-1.99
Lowest recorded July stage	+2.01	+1.87	+1.59	+2.14
Average departure (since 1860) of the July level from the June level	+0.21	+0.06	-0.04	-0.04

¹ Lake St. Clair's level: In July, 1928, 575.54 feet.